



In vivo imaging of the cyclic changes in cross-sectional shape of the ventricular region of pulsating embryonic heart tubes from the initial phase of ventricular trabeculation
[invited]

Männer, Jörg; Thrane, Lars; Norozi, Kambiz; Yelbuz, T. Mesud

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Joint Meeting 2009

Anatomische Gesellschaft –
Nederlandse Anatomen Vereniging



104th Annual Meeting of the
Anatomische Gesellschaft

March 27-30, 2009, Antwerpen, Belgium



104th International Meeting



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Programme of the Joint Meeting 2009
Anatomische Gesellschaft – Nederlandse Anatomen Vereniging
104th Annual Meeting of the Anatomische Gesellschaft
Antwerpen, Belgium March 27-30, 2009

Main Topic I:
(Neuro-) Immune Biology

Main Topic II (Heart Repair Symposium):
Heart Development, Angio- and Vasculogenesis

Papers and posters from all branches of anatomy

Symposia:

Leopoldina Symposium:
Cross-talk between the nervous and immune system
March 27, 2009, 01:00 -05:00 p.m.

COST B30 Symposium:
Animal models in research on neurodegeneration and neuroplasticity
March 29-30, 2009

The Anatomical Record/Wiley Symposium:
Respiratory biology
March 29, 2009

Flemish Elbow and Shoulder Surgeons Society (FLESSS) Symposium:
Functional and clinical anatomy of the elbow- and shoulder joint
March 28, 2009

Meeting Place:

University of Antwerpen
Middelheimcampus, Middelheimlaan 1, 2020 Antwerpen
Groenenborgercampus, Groenenborgerlaan 171, 2020 Antwerpen

Opening Ceremony:

Friday, March 27, 2009 – 06:00 p.m.
Aula J Fabre – Middelheimcampus

Welcome Reception

Congress Dinner

Sunday, March 29, 2009 – 08:30 p.m.
Ramada Plaza Antwerp Hotel

Business Meeting

Saturday, March 28, 2009 – 06:30 p.m.
Lecture Room T103

Opening Ceremony

06:00 p.m.

Words of Welcome

President of the Anatomische Gesellschaft
Prof. Dr. Jean-Pierre Timmermans

past President of the Nederlandse Anatomen Vereniging
Prof. Dr. Wout Lamers

Prof. Dr. Cathy Berx
Governor of the Province of Antwerpen

Prof. Dr. Alain Verschoren
Rector of the University of Antwerpen

Prof. Dr. Frans Van Meir
Dean of the Faculty of Biomedical, Pharmaceutical and Veterinary Sciences

Musical Interlude

Opening Ceremony Lecture

Prof. Dr. Jean-Pierre Timmermans

"Quantitative output parameters and rankings: the main future targets for medical faculties and anatomy departments?"

Bargmann Prize Award

Lecture(s) of Laureate(s)

Musical Interlude

Welcome reception and Get-together

13:00 – 17:10 **Leopoldina symposium**

13:00 ***Drenckhahn D, Würzburg (Germany)***
Welcome on behalf of the German Academy of Sciences
Leopoldina

13:15 – 15:10 Session I
Chair: Lüttjen-Drecoll E, Erlangen (Germany)/ Timmermans J-P, Antwerp (Belgium)

13:15 1a ***Carmeliet P, Leuven (Belgium)***
Neurovascular control in health and disease

14:00 1b ***Niederkorn J, Dallas (USA)***
Immune privilege of the eye: "There is something funny about aqueous humor"

14:45 2 ***Lüttjen-Drecoll E, Erlangen (Germany)***
Expression of Podoplanin and other lymphatic markers in the human anterior eye segment

15:10 – 15:25 Coffee Break

15:25 – 17:10 Session II
Chair: Neuhuber W, Erlangen (Germany)

15:25 3 ***Nitsch R, Berlin (Germany)***
Axonal damage: harm and help from the immune system

16:10 4 ***Boeckxstaens G, Leuven (Belgium)***
Neuromodulation of gut inflammation

16:55 ***Concluding remarks***

18:00 **Opening Ceremony: Aula J Fabre – Middelheimcampus**

Main topic I, Session I	08:30 - 10:45
Main topic I, Session II	11:15 - 12:30
Main topic I, Session III/Neuroanatomy/Neurobiology (I)	14:00 - 15:00
Neuroanatomy/Neurobiology (II)	15:45 - 16:45
Poster Session I (Room S310/311)	17:00 - 18:30
Business Meeting Anatomische Gesellschaft	18:30 - 19:30

08:30 – 10:45 Main topic I – Session I
Chair: Neuhuber WL, Erlangen (Germany)

- | | | |
|-------|---|---|
| 08:30 | 5 | Bechmann I, Frankfurt am Main (Germany)
Immune privilege and blood-brain barrier: concepts and misconceptions |
| 09:15 | 6 | Jones K, Maywood (USA)
CD4+T cell-mediated neuroprotection following peripheral nerve injury |
| 10:00 | 7 | Weihe E, Marburg (Germany)
From neuroimmune pathogenesis to neuroimmune protection, pharmacotherapy and prevention of disease |
-

10:45 – 11:15 Coffee Break

11:15 – 12:30 Main topic I – Session II
Chair: Bechmann I, Frankfurt am Main (Germany)

- | | | |
|-------|----|--|
| 11:15 | 8 | Hendrix S, Hasselt (Belgium)
T helper cells stimulate axon regeneration via interleukin-4 in an AKT/MAPK-dependent manner |
| 11:30 | 9 | Mikulski Z, Zaslona Z, Cakarova L, Hartmann P, von Wulffen W, Kummer W, Giessen (Germany)
Serotonin acutely elevates intracellular calcium concentration and augments CCL2 production in murine alveolar macrophages |
| 11:45 | 10 | Gebert A, Bleszenohl M, Schueht A, Orzekowsky R, Huettmann G, Klinger A, Lübeck (Germany)
Intravital observation of antigen transport by intestinal M cells - a 3D time lapse study in mice |
| 12:00 | 11 | Van Op den Bosch J, Van Nassauw L, Van Marck E, Timmermans J-P, Antwerp (Belgium)
Somatostatin modulates mast cell-induced responses in murine spinal neurons |
| 12:15 | 12 | Kuerten S, Laurentius L, Gruppe T, Lehmann P, Addicks K, Cologne (Germany) / Cleveland (USA)
In MP4-induced EAE of C57BL/6 mice functional deficits correlate with structural CNS damage |
-

12:30 – 14:00 LUNCH

14:00 – 15:00	Main topic I – Session III/Neuroanatomy/Neurobiology – Session I Chair: Rune G, Hamburg (Germany)	
14:00	13	Bergwerf I, De Vocht N, Tambuyzer B, Verschueren J, Reekmans K, Daans J, Ibrahimi A, Van Tendeloo V, Chatterjee S, Goossens H, Jorens P, Baekelandt V, Ysebaert D, Van Marck E, Berneman Z, Van Der Linden A, Ponsaerts P, Antwerp/Leuven (Belgium) Reporter gene-expressing bone marrow-derived stromal cells are immune-tolerated following implantation in the central nervous system of syngeneic immunocompetent mice.
14:15	14	Kipp M, Clarner T, Groebe A, Beyer C, Aachen (Germany) The cuprizone model as tool for studying demyelination in multiple sclerosis
14:30	15	Schomerus C, Laedtke E, Korf H, Wicht H, Frankfurt am Main (Germany) Expression of the clock genes <i>amphiPer</i> and <i>amphiBmal</i> in the lancelet <i>Branchiostoma lanceolatum</i>
14:45	16	Hausott B, Vallant N, Klimaschewski L, Innsbruck (Austria) Enhanced fibroblast growth factor receptor signaling promotes adult axon growth
15:15 – 15:45	Coffee Break	
15:45 – 16:45	Neuroanatomy / Neurobiology- Session II Chair: Beyer C, Aachen (Germany)	
15:45	17	Pfeffer M, Ansari N, Deller T, Korf H, Müller C, von Gall C, Frankfurt am Main (Germany) The mammalian molecular clockwork controls rhythmic expression of the ryanodine receptor
16:00	18	Heimrich B, Wu Y, Schmid S, Fischer H, Schwemmler M, Freiburg (Germany) Release of a neuroprotective factor from Sprague-Dawley hippocampus promotes survival of BDV-infected dentate granule cells of Lewis rats in vitro
16:15	19	Fester L, Hannig J, Jarry H, Rune G, Prange-Kiel J, Hamburg/Goettingen (Germany) / Dallas (USA) How to explain estrus cyclicity of neurogenesis in the hippocampus?
16:30	20	Yasuo S, Koch M, Schmidt H, Ziebell S, Geisslinger G, Korf H, Frankfurt am Main (Germany) Identification of an endocannabinoid system in the hypophysial pars tuberalis of the syrian hamster, a photoperiodic species
17:00 – 18:30	Poster Session I	
18:30 – 19:30	Business Meeting (Lecture Room T103)	

Cell Biology (I)

11:15 - 12:45

Poster Session I (Room S310-311)

17:00 - 18:30

11:15 – 12:45	Cell Biology (I) Chair: Wilting J, Goettingen (Germany)
11:15	21 Vanhecke D, Widmer C, Haenni B, Wahlers T, Nyengaard J, Gundersen H, Ochs M, Bern (Switzerland) / Cologne (Germany) / Aarhus (Denmark) Quantitative characterization of alveolar epithelial type II cells and lamellar bodies in the human lung by stereology and electron tomography
11:30	22 Schlegel N, Waschke J, Würzburg (Germany) Impaired cAMP and Rac 1 signalling cause TNF-alpha-induced endothelial barrier breakdown in microvascular endothelium
11:45	23 Banaz-Yasar F, Bongartz B, Singer B, Schumann G, Ergün S, Essen/Langen (Germany) Line-1 mediated retrotransposition events influence endothelial but not epithelial cell proliferation
12:00	24 Efthymiadis A, Heupel WM, Schlegel N, Müller T, Baumer Y, Baumgartner W, Drenckhahn D, Waschke J, Würzburg/Aachen (Germany) Cyclic tandem peptides targeting VE-cadherin transinteraction stabilize endothelial barrier function
12:15	25 Becker J, Wilting J, Goettingen (Germany) TGFB1 inhibits proliferation and invasion of neuroblastoma by MYCN-independent up regulation of TFPI2
12:30	26 Spindler V, Heupel W, Khan S, Drenckhahn D, Waschke J, Würzburg (Germany) Desmocollin 3-mediated binding is crucial for keratinocyte cohesion and epidermal integrity
12:30 – 14:00	Lunch break
17:00 – 18:30	Poster Session I
18:30 – 19:30	Business Meeting (Lecture Room T103)

FLESSS Symposium - Session I

14:00 – 15:15

FLESSS Symposium - Session II

15:45 – 18:15

14:00 – 15:15

FLESSS Symposium – Session I

Chair: **Van Glabbeek F, Antwerp (Belgium)**

14:00

27

Carmichael S, Sanchez-Sotelo J, O'Driscoll S, Rochester (USA)

Clinically relevant anatomy of the upper arm and elbow

14:45

28

Dierickx C, Ceccarelli E, Conti M, Vanlommel J, Castagna A, Hasselt (Belgium) / Milan (Italy)

Form variants of the proximal end of the caput longum of the biceps brachii

15:15 – 15:45

Coffee Break

15:45 – 18:15

FLESSS Symposium – Session II

Chair: **Hubens G, Antwerp (Belgium)**

15:45

29

De Wilde L, Ghent (Belgium)

Surgical anatomy of the glenoid cavity and scapula

16:15

30

Pouliart N, Brussels (Belgium)

Functional anatomy of the glenohumeral joint in relation with instability: new insights

16:45

31

Van Hoof T, Gomes G, Audenaert E, Verstraete K, Kerckaert I, D'Herde K, Ghent (Belgium)

3D computerized model for measuring strain and displacement of the brachial plexus following placement of reverse shoulder prosthesis

17:15

32

Amit B, Antwerp (Belgium)

Osteology of the clavicle and clinical implications

17:45

33

Gomes G, Antwerp (Belgium)

Statistical shape analysis of the scapula and humerus based on a large database of scanned bones

<i>Main topic II, Session I</i>	08:30 - 10:00
<i>Main topic II, Session II</i>	10:30 - 12:00
<i>Main topicII, Session III</i>	13:15 - 14:45
<i>Main topic II, Session IV</i>	15:15 - 17:00
<i>Poster Session II (Room U310)</i>	17:00 - 18:30

08:30 – 10:00	Main Topic II – Session I Chair: Moorman A, Amsterdam (The Netherlands)
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08:30	34	Davidson B, Tucson (USA) Comprehensive analysis of the heart gene network in the basal chordate, <i>Ciona intestinalis</i>
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09:15	35	Bakkers J, Utrecht (The Netherlands) Evolution of cardiac chambers: lessons from zebrafish
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10:00 – 10:30	Coffee Break
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10:30 – 12:00	Main Topic II – Session II Chair: Lamers W, Amsterdam (The Netherlands)
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10:30	36	Christoffels V, Amsterdam (The Netherlands) Development of the cardiac compartments in mammals
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11:15	37	Yutzey K, Cincinnati (USA) Development of the cardiac valves
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12:00 – 13:15	LUNCH
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13:15 – 14:45	Main Topic II – Session III Chair: Yutzey K, Cincinnati (USA)
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13:15	38	van den Berg G, Amsterdam (The Netherlands) Reconstructing the heart: growth of the embryonic heart tube
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14:00	39	Ergün S, Essen (Germany) Endothelial and hepatopoietic progenitor cells: fate determining partners for tumour cells
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14:45 – 15:15	Coffee Break
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15:15 – 17:00

Main Topic II – Session IV
Chair: Ergün S, Essen (Germany)

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- | | | |
|-------|----|---|
| 15:15 | 40 | <p>Palubinskiene J, Kipp M, Valanciute A, Salomskaitė-Davalgiene S, Graf von Keyserlingk D, Kaunas/Alytus (Lithuania) / Aachen (Germany)</p> <p>Vital microscopic morphometry applied to the heart of hen's embryo in reference to early function of the endocardial cushion</p> |
| 15:30 | 41 | <p>Djonov V, Fribourg (Switzerland)</p> <p>Intussusceptive angiogenesis contributes to tumor escape and recovery after anti VEGF treatment and ionizing radiation</p> |
| 15:45 | 42 | <p>Sedmera D, Sebestova B, Machalek J, Prague (Czech Republic)</p> <p>Primary ring of ventricular conduction system and effect of hemodynamic loading upon its function</p> |
| 16:00 | 43 | <p>Balnyte I, Prescher A, Valanciute A, Graf von Keyserlingk D, Kaunas (Lithuania) / Aachen (Germany)</p> <p>Chicken's heart in early development forms structures even distant</p> |
| 16:15 | 44 | <p>Frindte JN, Scheffrahn I, Schmid K, Reutter W, Ergün S, Singer BB, Essen/Berlin (Germany)</p> <p>Endothelial and epithelial characterization of CD26 in prostate cancer tissues</p> |
| 16:30 | 45 | <p>Männer J, Thrane L, Norozi K, Yelbuz M, Göttingen/Hanover (Germany)</p> <p>In vivo imaging of the cyclic changes in cross-sectional shape of the ventricular region of pulsating embryonic heart tubes from the initial phase of ventricular trabeculation</p> |
| 16:45 | 46 | <p>Puisoru M, Fatu C, Fatu A, Fatu R, Vasu B, Fatu I, Iasi (Romania)</p> <p>Angiogenesis in hyperplastic endometrium</p> |
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17:00 – 18:30

Poster Session II

<i>COST-B30 Symposium, Session I</i>	<i>08:45 - 10:00</i>
<i>COST-B30 Symposium, Session II</i>	<i>10:30 - 12:00</i>
<i>COST-B30 Symposium, Session III</i>	<i>13:15 - 14:45</i>
<i>COST-B30 Meeting Workshops I – IV</i>	<i>15:15 - 16:00</i>
<i>COST-B30 Meeting Management Committee</i>	<i>16:00 - 17:00</i>
<i>Poster Session II (Room U310)</i>	<i>17:00 - 18:30</i>

08:45 – 10:00 **COST-B30 Symposium, Session I**
Chair: Pochet R, Brussels (Belgium)

08:45 **Delgado JM, Sevilla (Spain)** – Welcome

09:00 **Pochet R, Brussels (Belgium)** – Introduction

09:15 47 **Hannan A, Melbourne (Australia)**
Molecular mediators and environmental modulators of pathogenesis
in Huntington's disease

10:00 – 10:30 Coffee Break

10:30 – 12:00 **COST-B30 Symposium, Session II**
Chair: Michetti F, Rome (Italy)

10:30 48 **Brion J, Brussels (Belgium)**
The mice models for Alzheimer's disease

11:15 49 **Mitrecic D, Pochet R, Brussels (Belgium)**
The rat model for amyotrophic lateral sclerosis and its potential in
development of stem cell therapy

12:00 – 13:15 LUNCH

13:15 – 14:45	COST-B30 Symposium, Session III Chair: Delgado JM, Sevilla (Spain)	
13:15	50	Michetti F, Rome (Italy) A toxin-induced experimental model of selective hippocampal degeneration
14:00	51	Barcal J, Cendelin J, Korelusova I, Tuma J, Vozeh F, Pilsen (Czech Republic) The effect of NMDA glutamate receptor blockade in lurcher mutant mice during two periods of their ontogeny on hippocampal long term potentiation (LTP)
14:15	52	Jay T, Paris (France) Restoring appropriate cognitive function and plasticity in circuits associated with dysfunctions in coping with stress : a new approach to treat mood disorders
14:30	53	Martinez-Millán L, Gerrikagoitia I, Carril I, Lejona – Vizcaya (Spain) The superior colliculus as a model for plasticity and regeneration
14:45 – 15:15	<i>Coffee Break</i>	
15:15 – 16:00	<i>COST-B30 Workshops I – IV, Separate sessions of the different working groups in lecture rooms T105 (WG1), T129 (WG2), T148 (WG3), and U025 (WG4), discussion of Joint Projects of WG1-4</i>	
16:00 – 18:00	<i>COST-B30 Meeting Management Committee, lecture room U025</i>	
17:00 – 18:30	<i>Poster Session II</i>	

<i>Anatomical Record Symposium, Session I</i>	10:30 - 12:00
<i>Anatomical Record Symposium, Session II</i>	13:15 - 14:45
<i>Anatomical Record Symposium, Session III</i>	15:15 - 16:15
<i>Poster Session II (Room U310)</i>	17:00 - 18:30

10:30 – 12:00 Anatomical Record Symposium - Session I
Chair: Adriaensen D, Antwerp (Belgium)

10:30 54 **Lee LY, Lexington (USA)**
Pulmonary C-fiber sensory nerves: properties and function

11:15 55 **Kummer W, Giessen (Germany)**
The cholinergic component in pulmonary epithelia/endothelia

12:00 – 13:15 LUNCH

13:15 – 14:45 Anatomical Record Symposium - Session II
Chair: Kummer W, Giessen (Germany)

13:15 56 **Adriaensen D., Antwerp (Belgium)**
Molecular live cell imaging of the airway epithelium: the pulmonary neuroepithelial body microenvironment

14:00 57 **Albertine K, Salt Lake City (USA)**
Neonatal lung biology/pathology

14:45 – 15:15 Coffee Break

15:15 – 16:15 Anatomical Record Symposium - Session III
Chair: Albertine K., Salt Lake City (USA)

15:15 58 **Karnati S, Baumgart-Vogt E, Giessen (Germany)**
Disturbance of distal airway morphogenesis and Clara cell function by interference with PPAR- and Wnt-signalling due to peroxisome deficiency

15:30 59 **Nassenstein C, Taylor-Clark T, Myers A, Ru F, Bettner W, Udem B, Giessen (Germany) / Baltimore (USA)**
Placodal and neural crest vagal C-fibers innervating murine airways: localization and phenotypic differences

15:45 60 **Krasteva G, Schlenz H, Wiegand S, Kummer W, Giessen (Germany)**
Caveolin-1 is involved in tracheal but not bronchial cholinergic constriction in the mouse

16:00 61 **Haberberger R, Tabeling C, König P, Runciman S, Gibbins I, Witzenrath M, Adelaide (Australia) / Berlin/Lübeck (Germany)**
Sphingosine kinase 1 deficiency leads to increased remodelling and responsiveness of pulmonary vasculature in chronic airway inflammation

17:00 – 18:30 Poster session II



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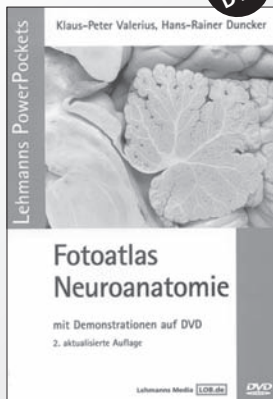
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| ■ HIF | ■ GPCRs |
| ■ Amelogenin | ■ Kallikrein 6 und 11 |
| ■ Aromatase | ■ LH-Receptor |
| ■ Axonal Growth Cones | ■ Lyve-1 |
| ■ BRCA1 | ■ Makrophages (CD163) |
| ■ Calcitonin Receptor | ■ Maspin |
| ■ Cannabinoid Receptor | ■ MCH |
| ■ CCR1 bis -4 | ■ Podoplanin |
| ■ CCR6, 8 bis -11 | ■ Prion Protein (PrP) |
| ■ CD163 | ■ Prox-1 |
| ■ CCRL1 und -2 | ■ PSA |
| ■ Collagens | ■ TLR2, 3, 5 und 9 |
| ■ Estrogen beta Receptor | ■ VEGFR1, -2 und -3 |
| ■ Fibroblasts (PHB) | |
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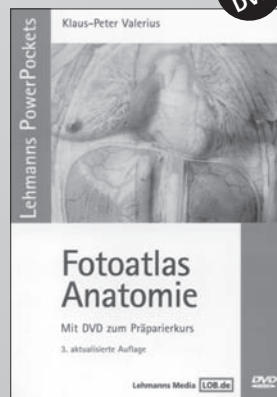
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<i>Neuroanatomy / Neurobiology (III)</i>	08:45 - 10:00
<i>Cell Biology (II)</i>	10:30 - 12:00
<i>Gross Anatomy / Clinical Anatomy</i>	13:30 - 15:15
<i>Closing Session and Poster Prizes</i>	15:30 - 15:45

08:45 – 10:00 Neuroanatomy / Neurobiology (III)
Chair: Korf H-W, Frankfurt (Germany)

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- | | | |
|-------|----|---|
| 08:45 | 62 | Weber G, Buseck (Germany)
"SprayCon CS" - A new method for whole body conservation in a closed system (technical lecture) |
| 09:00 | 63 | Schrödl F, Brehmer A, Neuhuber W, Nickla D, Erlangen (Germany) / Boston (USA)
Influences of the autonomic nervous system on the compensatory responses of the chick eye to defocus: single- and double-lesions studies of the pterygopalatine ganglion |
| 09:15 | 64 | Johann S, Kampmann E, van Neerven S, Mey J, Beyer C, Aachen (Germany)
Anti-inflammatory effect of retinoic acid on prostanoid metabolism in cortical astrocytes |
| 09:30 | 65 | Arnold S, Singh S, Misiak M, Roemgens A, Beyer C, Aachen (Germany)
Gender-specific regulation of mitochondria morphology and function in astrocytes under toxic conditions |
| 09:45 | 66 | Reekmans K, de Vocht N, Tambuyzer B, Bergwerf I, Daans J, Chatterjee S, Jorens P, Ysebaert D, Van Marck E, Van Der Linden A, Berneman Z, Ponsaerts P, Wilrijk (Belgium)
Multimodal imaging of adherently cultured neural stem/progenitor cell implants in the brain of mice |

10:00 – 10:30 Coffee break

10:30 – 12:00 Cell Biology (II)
Chair: Baumgart-Vogt E, Giessen (Germany)

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- | | | |
|-------|----|--|
| 10:30 | 67 | Turan Z, Irmak S, Ergün S, Essen (Germany)
Urinary proteomics via 2-d gel electrophoresis in human bladder cancer and chronic cystitis |
| 10:45 | 68 | Müller S, Pufe T, Tohidnezhad M, Brandenburg L, Varoga D, Wruck C, Aachen/Kiel (Germany)
Antirheumatic effects of sulforaphane: decrease of inflammation, proliferation and MMP activation |

11:00	69	Brandenburg L, Seyferth S, Wruck C, Koch T, Lucius R, Pufe T, Aachen/Kiel/Magdeburg (Germany) Involvement of phospholipase D 1 and 2 in the activity and signal transduction of formyl-peptide-receptors in the human colonic cell line HT29
11:15	70	Tohidnezhad M, Lippross S, Varoga D, Podschun R, Wruck C, Bornemann J, Bovi M, Herrmanns Sachweh B, Brandenburg L, Breuer F, Beckmann R, Jansen S, Pufe T, Aachen/Kiel (Germany) The role of platelet rich plasma (PRP) in fracture healing
11:30	71	Waisbrod G, Müller D, Middendorff R, Giessen (Germany) Cross-talk between natriuretic peptide receptors and its impact on vasorelaxation
11:45	72	Csaki C, Matis U, Shakibaei, Munich (Germany) Curcumin promotes an adequate microenvironment for MSC differentiation to chondrocytes during osteoarthritis
12:15 – 13:30		LUNCH
13:30 – 15:15		Gross Anatomy / Clinical Anatomy Chair: Pufe T, Aachen (Germany)
13:30	73	Löffler S, Wacker A, Dahl P, Scheinert D, Spanel-Borowski K, Leipzig (Germany) Multiple variations of arteries in the lower leg should be considered for pedal bypasses in case of the diabetic foot syndrome
13:45	74	Seceleanu A, Dudea S, Preda D, Seceleanu R, Seceleanu R, Cluj-Napoca (Romania) Anatomo-clinical correlations in orbital varices
14:00	75	Narain F, van Zwielen K, Gervois P, Lippens P, Op 't Eijnde B, Vandersteen M, Colla P, Palmers Y, Mewis A, Lamur K, Paramaribo (Suriname) / Diepenbeek/Hasselt (Belgium) Features of osteology in stylopodium and zeugopodium of <i>Didelphis marsupialis</i>
14:15	76	Antohe I, Iasi (Romania) Functional organization of the foramen lacerum
14:30	77	Steinke H, Hammer N, Böhme J, Stadler J, Slowik V, Josten C, Spanel-Borowski K, Leipzig/Magdeburg (Germany) The ligaments of the sacro-iliac joint
14:45	78	Wallner C, Dabhoiwala N, DeRuiter M, Lamers W, Amsterdam/Leiden (The Netherlands) A different point of view on pelvic floor function: the levator hiatus
15:00	79	Hesse B, Schilling N, Fischer M, Fröber R, Jena (Germany) Upright trunk posture and bipedalism – adaptations in the lumbar perivertebral musculature
15:30 – 15:45		Closing Session & Poster Prizes

<i>COST-B30 Symposium, Session IV</i>	<i>08:30 - 10:00</i>
<i>COST-B30 Symposium, Session V</i>	<i>10:30 - 12:30</i>
<i>COST-B30 Symposium, Session VI</i>	<i>13:30 - 15:30</i>

08:30 – 10:00 *COST-B30 Symposium, Session IV*
Chair: Gruart A, Sevilla (Spain)

08:30 80 **Pitkänen A, Kuopio (Finland)**
Molecular basis of epileptogenesis: A journey from gene array to analysis of epilepsy syndrome

09:15 81 **Timmerman V, Antwerp (Belgium)**
Molecular pathomechanisms of inherited peripheral neuropathies

10:00 – 10:30 Coffee break

10:30 – 12:30 *COST-B30 Symposium, Session V*
Chair: Pluta J, Warsaw (Poland)

10:30 82 **Gruart A, Delgado-García J, Sevilla (Spain)**
An experimental model for cognitive disorders

11:15 83 **Martin J, Murmu M, Gif-sur-Yvette (France)**
In vivo global neurodegeneration follow up using bioluminescence imagery in drosophila

12:00 84 **Pluta R, Ułamek M, Jablonski M, Warsaw/Lublin (Poland)**
Ischemic model of Alzheimer's disease

12:15 – 13:30 LUNCH

13:30 – 15:30 *COST-B30 Symposium, Session VI*
Chair: Jay T, Paris (France)

13:30 85 **Korczyn A, Tel-Aviv (Israel)**
Animal model of autonomous nervous dysfunction

13:45 86 **Schultzberg M, Stockholm (Sweden)**
Studies on an in vivo model of impaired interleukin-1 signalling

14:00 87 **Hammer N, Steinke H, Slowik V, Hülse R, Stadler J, Böhme J, Spanel-Borowski K, Leipzig/Magdeburg (Germany)**
The sacrotuberous and the sacrospinous ligament - a virtual reconstruction

14:15 88 **Baumgart-Vogt E, Giessen (Germany)**
Neurodegeneration in peroxisomal diseases

14:30 89 **Copray S, Groningen (The Netherlands)**
Neural stem cell grafts in a MS animal model

- 14:45 90 **Tambuyzer B, Bergwerf I, Reekmans K, De Vocht N, Daans J, Ysebaert D, Chatterjee S, Van Marck E, Berneman Z, Ponsaerts P, Antwerp/Wilrijk (Belgium)**
Allogeneic stromal cell implantation in brain tissue of immune-competent mice leads to robust microglial activation and subsequent graft elimination.
- 15:00 91 **Barham M, Andermahr J, Majczynski H, Slawinska U, Stützer H, Neiss W, Köln (Germany) / Warsaw (Poland)**
Effects of either preoperative or postoperative or pre- and postoperative treadmill training on the recovery of motor function after immediate repair of the sciatic nerve in rats
- 15:15 92 **Schütz B, Fuchs A, Schneider H, Weihe E, Roeper J, Marburg/Frankfurt (Germany)**
Reductions in KCC2 expression and changes in its intracellular distribution pattern in hypoglossal motor neurons precede tongue motility deficits in the SOD1-G93a mouse model of ALS

10:30 – 12:15

Developmental/Reproductive/Immune Biology
Chair: Paulsen F, Halle (Germany)

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- | | | |
|-------|----|---|
| 10:30 | 93 | De Spiegelaeere W, Cornillie P, Van den Broeck W, Ghent (Belgium)
Expression of angiogenic growth factors during mesonephric glomerulogenesis |
| 10:45 | 94 | Illig R, Schwarzer C, Fritsch H, Innsbruck (Austria)
Aspects of HOXA13, HOXD12 and HOXD13 mRNA expression in human development |
| 11:00 | 95 | Hueller H, Vilser C, Nowicki M, Blumenauer V, Hmeidan F, Jogschies P, Spanel-Borowski K, Leipzig (Germany)
Effects of LOX-1 and/or TLR4 activation by oxidized-low-density-lipoprotein (oxLDL) in granulosa cell subtypes |
| 11:15 | 96 | Singer B, Zabel S, Riesbeck K, Suttorp N, Ergün S, Slevogt H, Essen/Berlin (Germany) / Malmö (Sweden)
CEACAM1 inhibits toll-like receptor 2-triggered anti-bacterial responses of human pulmonary epithelial cells |
| 11:30 | 97 | König P, Bermbach S, Schiemann F, Petersen F, Rupp J, Lübeck/Borstel (Germany)
Cilia-driven transport of particles and bacteria in the airways is preserved in the absence of mucus and control of periciliary fluid volume |
| 11:45 | 98 | Eppler E, Caelers A, Mazel P, Berishvili G, Maclean N, Reinecke M, Zürich (Switzerland) / Southampton (UK)
Expression of IGF-I and IGF-II mRNA in various organs of a GH-overexpressing transgenic and wild-type tilapia: paradox reaction of the major immune organ spleen |
| 12:00 | 99 | Gajovic S, Zizic M, Mitrecic D, Pochet R, Zagreb (Croatia) / Brussels (Belgium)
Tail bud development and its stem cell properties in the mouse embryo |

MAIN TOPIC I (Poster Session I)

- P1 **Koch M, Kreutz S, Böttger C, Ghadban C, Korf H, Dehghani F, Frankfurt am Main (Germany)**
Cannabinoids and their role in neuroprotection
- P2 **Erdogan A, Cevli C, Aydin M, Sevinc O, Çanakkale (Turkey)**
A study on the reflex of mother rats for saving their babies
- P3 **Rusu M, Pop F, Ivascu R, Ciuluuica R, Bucharest (Romania)**
A morphological and topographical study of the trigeminal ganglion neurons in humans, with emphasis on the small-diameter trigeminal neurons

GROSS ANATOMY / CLINICAL ANATOMY (Poster Session I)

- P4 **Selthofer R, Radic R, Nikolic V, Leksan I, Mrcela T, Dinjar K, Osijek (Croatia)**
Dynamic model of cyclic load on fetal membranes in simulated intrauterine conditions
- P5 **Wacker A, Löffler S, Ulrich M, Bräunlich S, Adili F, Feja C, Spanel-Borowski K, Leipzig/Frankfurt (Germany)**
A prominent fibular artery as outflow vessel for crural bypass
- P6 **Schamall D, Cink V, Teschler-Nicola M, Loewe C, Kainberger F, Pretterklieber M, Vienna (Austria)**
Computed tomographical analysis of the internal architecture of the first metatarsal bone: a new application of high-resolution radiographic method for age estimation in historic bones.
- P7 **Kapustin R, Vasilyeva A, Maiskii Belgorodskoi oblasti (Russia)**
Morphogenesis of bone marrow and clinical anatomy of cattle's liver in early postnatal ontogenesis - **withdrawn** -
- P8 **Krikun E, Boldyr V, Kapustin R, Krikun Y, Belgorod/Maiskii Belgorodskoi oblasti (Russia)**
Regional peculiarities in indexes of physical development of Russian children: Moscow and Belgorod regions - **withdrawn** -
- P9 **Chiriac S, Dumitriu A, Iordache I, Unc O, Constanta (Romania)**
Progressive evolution of a forearm sarcoma and its functional impact on the affected anatomical muscle groups- a case report
- P10 **Frandes C, Radu A, Arad (Romania)**
Macroscopic evaluation of indexes of placentas from premature births with fetuses presenting developmental abnormalities

- P11 **Demirel B, Ozsoy U, Utuk A, Donmez O, Antalya (Turkey)**
Three-dimensional digitized location of supraorbital and infraorbital foramina referred to anthropometric and anatomic landmarks: a pilot study
- P12 **Utuk A, Demirel B, Donmez O, Ozsoy U, Antalya (Turkey)**
Digital measurements of the nasal aperture: a pilot study
- P13 **Ozsoy U, Donmez B, Demirel B, Oguz N, Urguden M, Antalya (Turkey)**
The comparison of the femoral curve with femoral nails: a digital analysis
- P14 **Donmez B, Koc P, Ozdemir S, Yaras N, Demir N, Karayalcin B, Oguz N, Antalya/elazig (Turkey)**
The effect of angiotensin receptor blocker on osteoporosis in ovariectomized rat femurs: a pilot study
- P15 **Staszky C, Bienert A, Kreutzer R, Wohlsein P, Simhofer H, Hanover (Germany) / Vienna (Austria)**
Histological examinations of the equine periodontal ligament with regard to equine odontoclastic tooth resorption and hypercementosis.
- P16 **Zahoi D, Miclaus G, Sztika D, Pop E, Timisoara (Romania)**
Peculiar aspects of the renal venous drainage in the case of the single renal vein. a study on corrosion casts
- P17 **Zahoi D, Miclaus G, Sztika D, Pop E, Timisoara (Romania)**
The segmentary distribution specificity of double renal arteries with relation to their parenchyma penetration points. a study on corrosion casts
- P18 **Saito T, Steinke H, Miyaki T, Sawuti A, Iwabuchi T, Kitayama T, Oi Y, Spanel-Borowski K, Itoh M, Tokyo (Japan) / Leipzig (Germany)**
The analysis of the layout of the posterior ramus of the spinal nerve is worthwhile for surgery in the dorsal region
- P19 **Meermans G, Govaers K, De Weerd W, Bortier H, Antwerp/Dendermonde (Belgium)**
Evaluation of eccentric femoral broaching in primary hip arthroplasty by medulloscopy
- P20 **Niculescu M, Rusu M, Ciobanu I, Stana L, Jianu A, Motoc A, Petrescu C, Niculescu V, Timisoara/Bucharest (Romania)**
Anatomical evidences on the origin and number of the sigmoid arteries
- P21 **Sferdian M, Frandes C, Arad (Romania)**
Discovering the most efficient methods of diagnosis of avascular necrosis of the femoral head
- P22 **Raducan S, Vermesan D, Bolintineanu S, Prejbeanu R, Moise M, Jianu A, Stana L, Motoc A, Timisoara (Romania)**
Anatomic study of the posterior aspect of the knee

- P23 **Cengiz M, Anaç C, Gürer G, Gürer I, Sindel T, Tuncer T, Sindel M, Antalya (Turkey)**
The osteoarthritis sighting localization in old cadaver knee joints: radiological, morphological and histopathological comparison
- P24 **Bordei P, Sapte E, Antohe D, Constanta (Romania)**
Peculiar aspects of the origin of the inferior suprarenal artery
- P25 **Surdu L, Bordei P, Iliescu D, Antohe D, Constanta (Romania)**
The origin of the splenic artery in relation with other classic branches of the celiac trunk
- P26 **Iliescu M, Bordei P, Constanta (Romania)**
Anatomic and imagistic correlations within the lumbar vertebral canal stenosis
- P27 **Sapte E, Bordei P, Indrei A, Constanta (Romania)**
Morphological variations of the renal arteries and their surgical importance
- P28 **State D, Stroica L, Bucharest (Romania)**
Unusual branching pattern of the axillary artery
- P29 **Kovac T, Radic R, Popovic B, Osijek (Croatia)**
Experimental investigation of fractures of thyroid cartilage
- P30 **Suzen B, Yildirim F, Ozsoy U, Demirel B, Arican R, Sarikcioglu L, Ozturk Z, Keser I, Yesilipek A, Ozdem S, Erkilic M, Oguz N, Antalya (Turkey)**
Bone mineral density, hormonal and biochemical measurements in Turkish children with beta-thalassemia major
- P31 **Sindel M, Sindel T, Arican R, Kabaalioglu A, Coskun N, Ceken K, Antalya (Turkey)**
Termination of vena saphena magna; a radiological anatomic study

CELL BIOLOGY (Poster Session I)

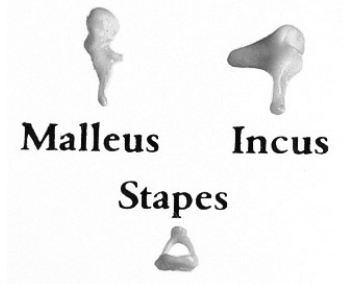
- P32 **Stoll C, Rosen C, Endres M, Kaps C, John T, Kohl B, Ertel W, Schulze-Tanzil G, Berlin (Germany)**
Extracellular matrix expression in 2D and 3D cultured tenocytes compared to native tendon tissue
- P33 **Saritas T, Mutig K, Kahl T, Böhlick A, Rampoldi L, Bates J, Kumar S, Bachmann S, Berlin (Germany) / Milan (Italy) / Oklahoma City (USA)**
Tamm-horsfall protein (THP) facilitates trafficking and phosphorylation of kidney Na,K,2Cl-cotransporter (NKCC2)
- P34 **El Sayed K, Kuhne M, Aue A, Marzahn U, Kohl B, John T, Witthuhn A, Haisch A, Stölzel K, Blottner D, Schulze-Tanzil, Berlin (Germany)**
Heterotopic chondrocyte co-cultures: an approach for autologous cartilage repair?



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Das anatomische Zeitalter



Das vorliegende Buch zeigt auf der Grundlage des aktuellen Forschungsstandes zur Anatomiegeschichte zunächst die Entwicklung der Anatomie von den Anfängen und der Antike bis zum Ausgang des Mittelalters auf.

Den Schwerpunkt bildet jedoch die Darstellung der Anatomiegeschichte in der Renaissance, also im ausgehenden 15. und im 16. Jahrhundert. In dieser Zeit konnte das Fach einen wesentlichen Aufschwung erleben.

Einen Meilenstein bildet aus medizinhistorischer Sicht das anatomische Werk des Leonardo da Vinci, das sowohl inhaltlich wie auch in der zeichnerischen Bewältigung neue Maßstäbe setzte, wenngleich die Wirkung nicht allzu stark gewesen ist, da Leonardo den Plan eines Anatomiebuches nicht realisierte.

Hervorgehoben werden auch andere zeitgenössische Anatomen und Schriftsteller wie beispielsweise Jacobo Berengario da Carpi, Charles Estienne oder Walther Hermann Ryff, die im Zeitraum von etwa 1500-1540 mit ihren Arbeiten den Boden für das bahnbrechende anatomische Buch des Andreas Vesal «De humani corporis fabrica libri septem» aus dem Jahre 1543 bereiteten.

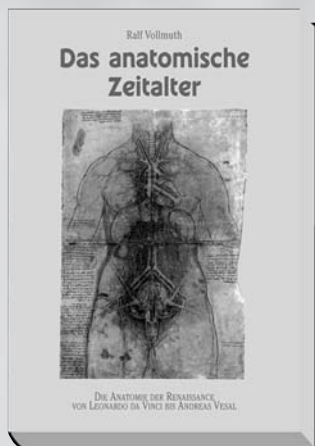
Ein weiterer zentraler Abschnitt ist dem Leben und vor allem dem Werk Vesals gewidmet, bevor in einem abschließenden Kapitel holzschnittartig die unaufhaltsame Entwicklung der Anatomie im 16. und 17. Jahrhundert skizziert wird.

Dieses bemerkenswerte Buch wurde in der „Spiegel-Ausgabe“ Nr. 23/2004 umfassend vorgestellt. Auszüge aus der Rezension:

„In seinem Buch ‚Das anatomische Zeitalter‘ beschreibt der Medizinhistoriker Ralf Vollmuth, wie die Medizin in der ersten Hälfte des 16. Jahrhunderts revolutioniert wurde.“

Weshalb Leonardo seine Zeichnungen nie veröffentlicht hat „und wie es Vesal schließlich gelang, die Lehre der Anatomie neu zu begründen, erklärt Vollmuth in leicht verständlicher Sprache und anhand eindrucksvoller Abbildungen“.

DER SPIEGEL



Ralf Vollmuth, Das anatomische Zeitalter.

Die Anatomie der Renaissance von Leonardo da Vinci bis Andreas Vesal. 185 Seiten

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- P35 **Reich C, Raabe O, Wenisch S, Bridger P, Arnhold S, Giessen (Germany)**
Comparison of canine bone marrow and adipose derived mesenchymal stem cells
- P36 **Mensing N, Staszyc C, Gasse H, Hanover (Germany)**
Osteogenic differentiation of equine periodontal cells in vitro: semiquantitative determination of mineralization products and quantitative determination of cellular calcium intake
- P37 **Raabe O, Reich C, Wenisch S, Burg-Roderfeld M, Siebert H, Arnhold S, Giessen (Germany)**
Analysing the chondrogenic differentiation potential of equine adipose tissue-derived stem cells
- P38 **Koch M, Bauer K, Tamm E, Regensburg (Germany)**
Pancortin-3 enhances substrate adhesion of podocytes
- P39 **Maronde E, Benz A, Perutzki N, Shajari M, Dehghani F, Frankfurt (Germany)**
Interaction between MEK-1/2 and PI3K contributes to FGF-1-mediated induction of Egr-1 in hippocampal neurons
- P40 **Fuchshofer R, Junglas B, Tamm E, Regensburg (Germany)**
Connective tissue growth factor induces changes in the actin cytoskeleton of human trabecular meshwork cells
- P41 **Köhler E, Sankaranarayanan S, Van Ginneken C, Vermeulen J, Ruijter J, Lamers W, Bruder E, Maastricht/Amsterdam (The Netherlands) / Antwerp (Belgium) / Basel (Switzerland)**
The human neonatal small intestine has the potential for arginine synthesis
- P42 **Tohidnezhad M, Lippross S, Wruck C, Varoga D, Bornemann J, Bovi M, Herrmanns Sachweh B, Brandenburg L, Breuer F, Beckmann R, Jansen S, Pufe T, Aachen (Germany)**
Detection of human beta defensin 2 and 3 in thrombocytes
- P43 **Lembrechts R, Brouns I, Pintelon I, Schnorbusch K, Timmermans JP, Adriaensen D, Antwerp (Belgium)**
Expression of the two-pore-domain mechanogated potassium channels TREK and TRAAK in lungs
- P44 **Kollas A, Baumgart-Vogt E, Giessen (Germany)**
Effects of starvation and phorbol esters on the peroxisomal compartment of RAW264.7 murine macrophages
- P45 **Avula L, Knapen D, Van Op den Bosch J, Vergauwen L, Blust R, Van Nassauw L, Timmermans JP, Antwerp (Belgium)**
Expression of mas-related genes (Mrgs) in the normal and inflamed murine ileum

DEVELOPMENTAL BIOLOGY (Poster Session I)

- P46 **Pilmane M, Abola Z, Petersons A, Riga (Latvia)**
Growth factors in the proximal and distal ends of esophagus in children with esophageal atresia (EA)
- P47 **Lasiene K, Valanciute A, Vitkus A, Lasys V, Salomskaite Davalgiene S, Kaunas (Lithuania)**
Morphometric analysis of 2-2.5 year-old guinea pig oocytes
- P48 **Motoc A, Pop F, Rusu M, Timisoara/Bucharest (Romania)**
Fetal condylar morphology that prefigures the bifid mandibular condyle
- P49 **Philippi S, Redinger-Kraus B, Brand-Saberi B, Freiburg (Germany)**
Expression pattern and functional analysis of the flightless-i gene in myogenesis in the chicken embryo
- P50 **Morosan-Puopolo G, Dai F, Yusuf F, Rehimi R, Brand-Saberi B, Freiburg (Germany)**
The role of Wnt11 in dermis development
- P51 **Khalida N, Rehimi R, Yusuf F, Dai F, Morosan-Puopolo G, Brand-Saberi B, Freiburg (Germany)**
A novel role of CXCR4 and SDF-1 during cloacal muscle formation in the developing chick embryo
- P52 **Dai F, Morosan-Puopolo G, Balakrishnan-Renuka A, Philippi S, Zhao W, Yusuf F, Diana Runkel E, Brand-Saberi B, Freiburg (Germany)**
The role of bHLH transcription factor ATOH8 in myogenesis
- P53 **Adam N, Höckel M, Fritsch H, Innsbruck (Austria) / Leipzig (Germany)**
Development of vaginal epithelium: a histologic and immunohistochemical view
- P54 **Jianu A, Rusu M, Sisu A, Niculescu M, Motoc A, Timisoara/Bucharest (Romania)**
Evidences of the arterial microvasculature of the fetal temporomandibular joint (TMJ)
- P55 **Niculescu M, Jianu A, Sisu A, Stana L, Niculescu V, Motoc A, Folescu R, Rusu M, Timisoara/Bucharest (Romania)**
Considerations on the causative factors in the morphogenesis of the mandible's lingula and antilingula
- P56 **Wörl J, Breuer C, Neuhuber W, Erlangen (Germany)**
Deletion of Pax7 changes the tunica muscularis of the mouse esophagus from an entirely striated into a mixed phenotype
- P57 **Norkute A, Kipp M, Graf von Keyserlingk D, Valanciute A, Beyer C, Kaunas (Lithuania) / Aachen (Germany)**
Early formation of a GFAP-positive cell population during chicken brain development

- P58 **Callebaut M, Van Nueten E, Harrisson F, Hubens G, Antwerp (Belgium)**
Mechanisms of regulation or mosaicism in avian blastoderm parts

IMMUNE BIOLOGY (Poster Session I)

- P59 **Kretschmer S, Gebert A, Orzekowsky-Schroeder R, Hüttmann G, König P, Lübeck (Germany)**
An ex-vivo airway model to study cellular dynamics and tissue morphology using two-photon laser scanning microscopy
- P60 **Zidan M, Pabst R, Edfina (Egypt) / Hanover (Germany)**
The microanatomy of the palatine tonsils of the one humped camel (Camelus dromedarius)
- P61 **Oberlin D, Fellbaum C, Eppler E, Zürich (Switzerland) / Singen (Germany)**
IGF-I is distinctly located in human lymph node
- P62 **Vijayan V, Immenschuh S, Baumgart-Vogt E, Giessen (Germany)**
Cross-talk of pro-inflammatory and anti-inflammatory signal transduction pathways in lipopolysaccharide (LPS) induced RAW264.7 murine macrophages.
- P63 **Stoeckelhuber M, Messmer E, Schubert C, Stoeckelhuber B, Koehler C, Welsch U, Bals R, Munich/Lübeck/Marburg (Germany)**
Immunolocalization of defensins and cathelicidin in human glands of Moll
- P64 **Bräuer L, Möschter S, Beileke S, Paulsen F, Halle (Germany)**
Detection and localization of the surfactant proteins A, B, C and D in human salivary glands and saliva

MAIN TOPIC II (poster session II)

- P65 **Nanka O, Petrovova E, Fikrle M, Sedmera D, Prague (Czech Republic)**
Pathogenesis of catecholamine induced cardiomyopathy in quail embryo
- P66 **de Anta J, Ramírez M, Miguel M, Buxeda M, Sanchez E, Götzens V, Duran J, Ortiz J, Barcelona (Spain)**
VEGFA and KDR single nucleotide polymorphisms and coronary artery variations in hearts from human cadaver specimens
- P67 **Ohlmann A, Seitz R, Braunger B, Seitz D, Bösl M, Tamm E, Regensburg/Martinsried (Germany)**
Norrin promotes vascular regrowth after oxygen-induced retinal vessel loss and suppresses retinopathy in mice
- P68 **Buttler K, Wilting J, Göttingen (Germany)**
Human lymphangioma: comparison with animal models
- P69 **Buttler K, Wilting J, Göttingen (Germany)**
Lymphangiogenic potential of endothelial precursor cells in the mouse embryo
- P70 **Hoelbling-Patscheider D, Schotchkowsky S, Falkeis C, Klein H, Fritsch H, Innsbruck (Austria) / Bochum (Germany)**
The "forgotten" pericardial fat depot: an immunohistochemical view
- P71 **Schneider R, Welt K, Fitzi G, Leipzig (Germany)**
The influence of cardiac ischemia and reperfusion in spontaneously diabetic rats with and without application of EGB 761 on myocardial microvascular compartment
- P72 **Saburkina I, Pauza D, Rysevaite K, Vaitkevicius R, Geguzis V, Juodis E, Pauziene N, Kaunas (Lithuania)**
Relationship of the ovine epicardial ganglionated nerve plexus with sympathetic trunks and vagal nerves. A stereomicroscopic study
- P73 **Bongartz B, Banaz-Yasar F, Scheffrahn I, Schumann G, Ergün S, Essen/Langen (Germany)**
Role of LINE-1-mediated retrotransposition events and the function of LINE-1-encoded ORF-1p in angiogenesis

METHODS / TEACHING (Poster Session II)

- P74 **Ortug G, Yucel F, Eskisehir (Turkey)**
European anatomists honored with a medal from the Ottoman empire.
- P75 **Kapustin R, Korobeynikova M, Maiskii Belgorodskoi oblasti (Russia)**
Factor plans in morphological investigations of structural transformations of rabbits' skin in an experiment - **withdrawn** -
- P76 **Slesarenko N, Nosovsky A, Kapustin R, Moscow/Maiskii Belgorodskoi oblasti (Russia) - withdrawn -**
Invariant relationship as an integral criterion of evaluation of individual and typological reactions of bone's system of mammalian organisms

- P77 **Winkelmann A, Berlin (Germany)**
Progression of anatomical knowledge in traditional and reformed curricula
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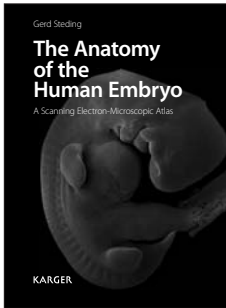
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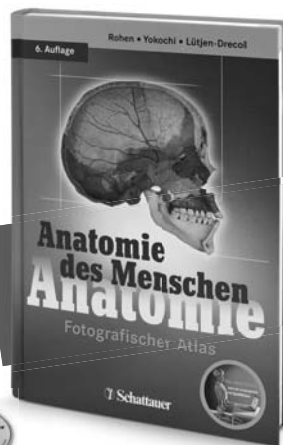
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Wolff M.	P124
Wörl J.	P56
Yasuo S.	L20
Yutzey K.	L37
Zahoi D.	P16
Zahoi D.	P17
Zidan M.	P60

■ Leichenkonservierungs-Anlagen und Leichentransport-Systeme ■ Präpariertische, auch mit Flächenabsaugung ■ Küvetten für Präparate ■ Injektions- und Seziertische ■ Laboreinrichtungen ■ Mazerationen-/ Knochenentfettungs-Anlagen, Fabrikat FUNERALIA ■ Präpariersaal- und Arbeitsraum-Einrichtungen ■



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A281



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GENERAL INFORMATION

Organization

This joint meeting is an organization of the Anatomische Gesellschaft and the Nederlandse Anatomen Vereniging in collaboration with the University of Antwerpen.

President of the Anatomische Gesellschaft President of the 104th Annual Meeting

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Local Organizing Committee

All members of the Laboratory of Cell Biology and Histology (Core facility Biomedical Microscopic Imaging), University of Antwerpen

Social Programme

Prof. Dr. C. Van Ginneken

Congress Secretariat

Hubert De Pauw, Dominique De Rijck, Stef Kockelberg

Exhibition & Publicity Secretariat

Hubert De Pauw, Dominique De Rijck, Jan Van Daele

Correspondence and Meeting Secretary

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exhibjm2009@ua.ac.be

Congress Venue and Lecture Rooms

Friday, 27 March 2009

University of Antwerpen, Building G – Middelheimcampus, Middelheimlaan 1
2020 Antwerpen, Belgium
Aula J Fabre and Hall

Saturday, 28 – Monday, 30 March 2009

University of Antwerpen, Buildings T, Y and S – Groenenborgercampus
Groenenborgerlaan 171, 2020 Antwerpen, Belgium
Hall, Lecture Rooms T103, T105, U024, U025, U026, S310 and S311

Meeting office and Registration Desk

Friday, 27 March 2009

Building G of the Middelheimcampus, Middelheimlaan 1
2020 Antwerpen, Belgium
Opening hours: 12.00 - 18.00 h

Saturday, 28 - Monday, 30 March 2009

Hall building T of the Groenenborgercampus, Groenenborgerlaan 171
2020 Antwerpen, Belgium
Opening hours: 8.00 - 19.00 h

Registration Fees

Members of the Anatomische Gesellschaft	125 EUR
Members of the Nederlandse Anatomen Vereniging	125 EUR
Non-members	165 EUR
Accompanying persons	50 EUR
Students*	40 EUR

**with a copy of their student ID and a signed letter from their department head or supervisor.*

Accommodation

Antwerp counts a large number of hotels in different price categories. The following hotels offer a limited number of rooms at special congress rates to congress participants:

- Ibis Hotel, situated in the heart of the historic town centre
 - Crowne Plaza Hotel, located near the Antwerp city ring road, outside the centre.
- For further information and booking instructions please click on the above links. Hotel booking at special rates can also be made by the travel agent "Omnia" in Leuven. Contact: Tom Vanderhaegen - email: Tom.Vanderhaegen@omnia.be; tel: +32-16-24 38 20

Student accommodation: the "Theologisch Pastoraal Centrum" (TPC – Theological Pastoral Center), situated next to the Groenenborgercampus, provides 50 modest single rooms without private toilet/bath. Prices are 27 €/person/night (breakfast and linen included); no "hotel service" is available. Reservations and advance payments need to be done when registering. Room keys are to be collected during the opening hours at the congress secretariat and thereafter with the caretaker of the TPC (up to 22.00 h at the latest).

Oral Presentations

The official congress language is English. All presentations and talks will therefore be held in English. We would ask all participants to keep to the designated time.

Audio visual equipment is installed in all lecture rooms.

Speakers are requested to hand over their presentations in advance in room U026, where presentations can also first be tested. Please do not bring along your own notebook/laptop; all lecture rooms have Windows PC with CD-drive and usb ports. The easiest and most convenient way is to store your presentation on a usb flash drive. Please carefully check your presentation before coming to the Joint Meeting to ensure that it runs smoothly and that all the necessary files, movies etc... are included. The presentation software is Windows PowerPoint.

Mac users with Keynote® presentation, however, have to bring along their own laptop.

Abstracts

All abstracts selected for presentation and presented on site will be published online on the website of the Anatomische Gesellschaft – Annual Meetings (www.anatomische-gesellschaft.de) as pdf-files

Poster Sessions

Posters will be presented in rooms S310 and S311.

Posters are to be mounted in the morning of the respective poster session and removed immediately after the end of the session.

Please use easily removable material (such as Scotch Magic adhesive tape) when mounting your posters. The use of drawing pins is forbidden. Scotch Magic adhesive tape is available from the “poster assistant”.

Maximal poster size (Width x Height) is 90 x 180 cm.

Poster Prizes

The Anatomische Gesellschaft awards four posters during the 104th Annual Meeting of the Anatomische Gesellschaft in Antwerp 2009. The poster awards are kindly sponsored by Schattauer GmbH. To get a prize first authors have to be present personally (also at the award ceremony).

Industrial exhibition

The exhibition is located in the hall of building T and in the lower part of the cafeteria.

Coffee Breaks and Lunch

The catering stand for coffee breaks and lunch is situated in the hall of building T.

During the coffee breaks, participants are offered free coffee, tea, water or orange juice in the catering stand. The catering stand offers lunch boxes (6 €) consisting of 1 filled roll (vegetarian, meat or fish), 1 drink and 1 desert (fruit, yogurt or candy bar).

Participants pay and fill their lunch box.

Internet

Participants will have access to PCs connected to the internet in room U026.
Free wireless internet access will be available in the cafeteria.

How to reach Antwerp and the University of Antwerp

By air from Brussels Airport

Antwerp Express

Every hour a direct coach service departs from the airport to the city centre of Antwerp. This coach service is operated every day. The coaches leave from the back of platform B at the bus station (level 0 – one floor down from the arrivals hall). The stop "De Keyserlei" (near the central station) is always served, the stop "Crowne Plaza" (10-15 min walk from the Groenenborgercampus) is only served on request.

On weekdays and Saturdays: first departure: 5:00 a.m.; last departure: 12 midnight

On Sundays: first departure: 7:00 a.m.; last departure: 12 midnight

Travel time: approximately 45 minutes

Tickets: available from the driver. Fare: € 10,- for adults; € 5,- for children

Brussels Airport Express

Every hour a direct coach service departs from Antwerp to Brussels Airport. This coach service runs every day.

Stop "De Keyserlei" (near central station)

On weekdays and Saturdays: first departure: 4:00 a.m.; last departure: 11:00 p.m.

On Sundays: first departure: 6:00 a.m.; last departure: 11:00 p.m.

Travel time: approximately 45 minutes

Stop "Crowne Plaza"

On weekdays and Saturdays: first departure: 4:10 a.m.; last departure: 11:10 p.m.

On Sundays: first departure: 6:10 a.m.; last departure: 11:10 p.m.

Travel time: approximately 35 minutes

Tickets: available from the driver Fare: € 10,- for adults; € 5,- for children

By train

The 2 main train stations in Antwerp are "Antwerpen Centraal" and "Antwerpen Berchem". Participants who need to be in the centre of Antwerp, continue up to "Antwerpen Centraal". Participants for the Middelheim- and/or Groenenborgercampus get off at "Antwerpen Berchem" and then take the bus to these campuses (see public transportation).

By car

To the Middelheimcampus

Coming from Gent: E17

Follow direction Hasselt > take the exit "Wilrijk – Berchem" > at the end of the exit, turn right onto the Beukenlaan > at the third traffic lights, turn left onto the Middelheimlaan > take the second street on the right (Floralienlaan)

Coming from Hasselt – The Netherlands E313

Follow the Antwerp ringroad direction Gent > take the exit "Berchem" > turn immediately left (across the motorway) onto the "Grote Steenweg" > turn right at the first traffic lights onto the Elisabethlaan > turn again right at the next traffic lights (at the obelisk) onto the Koninklijkelaan up to the Middelheimlaan > take the second street on the left (Floralienlaan)

Coming from Brussels E19:

Take exit 6 "Hoboken, Wilrijk, Mortsel" > keep left, direction R11 "Hoboken – Wilrijk Centrum" > turn right at the third traffic lights > turn immediately right again onto the Groenenborgerlaan > turn left at the first traffic lights onto the Beukenlaan > take the first street on the right (Middelheimlaan) > take the second street on the right (Floralienlaan)

In case of insufficient parking space, participants are allowed to park their car on the parking lot of the Groenenborgercampus and the Theological Pastoral Centre and then go the Middelheimcampus by feet (a 10-min walk along a signposted walk/bike way)

To the Groenenborgercampus

Coming from Gent: E17

Follow direction "Hasselt" > take the exit "Wilrijk – Berchem" and turn right onto the Beukenlaan > turn left at the end of the Beukenlaan (= 4th traffic lights) > take the 3rd turn at the roundabout and turn left, just before the barrier, onto parking lot 1 or drive back to the roundabout, take the Groenenborgerlaan (= first turn roundabout) and turn immediately right onto parking lot 2

Coming from Hasselt – the Netherlands

Follow direction "Gent" on the Antwerp ringroad > take exit "Berchem" and turn immediately left (across the motorway) onto the Elisabethlaan < turn right at the 2nd traffic lights onto the Groenenborgerlaan > take the 1st turn at the roundabout and turn left, just before the barrier, onto parking lot 1 or drive back to the roundabout, take the Groenenborgerlaan again (= first turn roundabout) and turn immediately right onto parking lot 2

Coming from Brussels E19

Take exit 6 "Hoboken, Wilrijk, Mortsel" > keep left, direction R11 "Hoboken – Wilrijk Centrum" > turn right at the second traffic lights (signpost Middelheim) > turn right again onto the Groenenborgerlaan > after the traffic lights, take the 3rd turn at the roundabout and turn left, just before the barrier, onto parking lot 1 or drive back to the roundabout, take the Groenenborgerlaan (= first turn roundabout) and turn immediately right onto parking lot 2

In case of insufficient parking space on the university parking lots, participants are allowed to park their car on the parking lot of the Theological Pastoral Centre situated next to parking lot 2 of the Groenenborgercampus.

Public transportation

Public transportation (bus and tram) in Antwerpen is provided by "De Lijn"
Most common fares (price in advance sale/price when obtaining ticket from driver):
Individual ticket: € 1,20 /€ 1,60 - 60 minutes valid
Ticket valid for 24 hours: € 5,00/€ 6,00 - 24 hours valid
10-ride card: € 8,00 /€ 10,00 - 10 x 60 minutes valid
Tickets must be validated each time using the validation machine on the bus or tram prior to travelling.
Points for advance sale: Newspaper shops, supermarkets, ticket dispensing machines at the stops, Tourism Antwerp (only ticket valid for 24 hours or 10-ride card), ...

Contact Public Transport 'De Lijn'
Phone: +32 (0)3 218 14 11
Fax: +32 (0)3 218 15 00
E-mail: dienstregelingen.ant@delijn.be

Most common fares (in EUR)	advanced sale	ticket obtained from driver
Individual ticket	1,20	1,60
10-ride card	8,00	11,00-20,00
1-day pass	5,00	6,00
3-days pass	10,00	12,00
5-days pass	15,00	18,00

Cabs

The cab company situated nearest to both the congress site and the Crowne Plaza Antwerp and Ramada Plaza Antwerp hotels is Antwerp-tax (03-238 38 38)

Other cab companies in Antwerp:

D Taxi	03-825 75 75
DTM Taxi	03-366 66 66
Metropole Taxi	03-233 22 48
Star Taxi	03-257 57 57

SOCIAL PROGRAMME

In case one or more of the below activities are to be cancelled due to an insufficient number of participants, participants will be notified per email and the amount will be refunded. Subscriptions for events with a maximal number of participants are on a first come, first served basis.

All activities will have English-speaking guides.

Welcome reception

The Welcome Reception will take place immediately after the Opening Ceremony on **Friday, 27 March 2009** in the hall of Building G of the Middelheimcampus, Middelheimlaan 1, 2020 Antwerpen
Free of charge

Congress dinner

Sunday, 29 March 2009, 20:30 p.m.
at the Ramada Plaza Antwerp hotel, Desguinlei 94, 2018 Antwerpen
Fee: € 50,00

Guided visit to Bruges (Brugge)

Saturday, 28 March 2009, 08:30 a.m.

Visit to the historical heart of Bruges. We take a walking tour for a first exploration of the city's landmarks and monuments: the market square with its typical historic façades and the belfry, the Burg (City Hall, Basicila of the Holy Blood, Old Recorders' House), the canals of Bruges, the Fish Market, the College of Europe. Our tour will take you further along Bruges' renowned museums (Groeninge, Gruuthuse, Brangwyn), the Church of Our Lady (with the white marble Madonna with Child by Michelangelo), Old St. John's Hospital with the Memling Museum, the Beguinage and the Lake of Love. This walking tour is a must for any visitor to Bruges! The story of this tour starts in the early middle ages and will unfold Bruges in all its richness and splendour.

Lunch (excl. beverages) and tour by boat on the city canals included.

Meeting place: congress site Groenenborgercampus, 08:30 a.m.

Fee: € 65,00

'Looking at Rubens'

Sunday, 29 March 2009, 09:30 a.m.

'Looking at Rubens' takes you to the Koninklijk Museum voor Schone Kunsten, Antwerp's fine arts museum. The twenty-five paintings and oil sketches by Rubens form a surprisingly diverse and rich collection. Here you encounter Rubens as the masterly narrator of biblical and classical stories, but also as a painter of landscapes and nudes. Whether he worked in his controlled, penetrating, dynamic or exuberant style, the result is always impressive. The walk to and from the museum takes you through the historic city centre and along the edges of the river Scheldt. People also participating in "Classic Antwerp" are free to lunch in any suitable location of their choice. Both the "Grote Markt" and its immediate surroundings have countless places to eat, offering quick snacks to elaborate meals.

Meeting place: Groenplaats – statue of Rubens, 09:30 a.m.

Fee: € 10,00

Historical centre of Antwerp

Sunday, 29 March 2008, 01:30 p.m.

The walk begins alongside the city's lifeblood: the river. From the River Scheldt, where a part of the old port culture is still to be seen, the street plan follows the old course of the water: the inlets, canals, defences and even a wild sea. The stonemasons' houses along the rampart named after them (Steenhouwersvest) have since made way for bric-à-brac shops. The bankers of the Lombardenvest would perhaps be less surprised about the emergence of a hip fashion district in their old area. Modern shopping streets lead to the past. On the Wapper you enter the home and studio of the city's most famous citizen: the artist Peter Paul Rubens. That art can lead to higher spheres becomes clear during a visit to the Cathedral of Our Lady. On the outside the old lady is clad in magnificent stone lacework; inside she is a shrine to impressive works of art, including no fewer than four paintings by Rubens. The tour ends at the Grote Markt, the heart of the historic city.

Meeting place: in front of the City Hall at the Grote Markt (city square), 01.30 p.m.

Fee: € 15,00.

Visit of the diamond museum and diamond cutting factory

Monday, 30 March 2009, 09:45 a.m.

The Diamond Museum is the place to be to learn everything about diamonds. Diamond is a magical word. It evokes images of power and wealth, of invincibility and strength, but also of beauty and love. The museum is an 'image and sound' museum, a total and unique experience for the senses you actually find yourself immersed in the fascinating world of this magnificent little stone, from its origin and formation to the production of polished and fancy cut diamonds. The visit to the Diamond Museum is preceded or followed by a visit to the traditional diamond cutting and polishing firm of Krochmal & Lieber.

People also visiting the Zoo of Antwerp are free to lunch in any suitable location of their choice. Both the "Antwerp Central Railway Station" and its immediate surroundings have countless places to eat, offering quick snacks to elaborate meals.

Meeting place: Hall of Antwerp Central Railway Station, 09:45 a.m.

Fee: € 14

Antwerp Zoo

Monday, 30 March 2009, 01:30 p.m.

The Zoo of Antwerp, founded in 1843 and hence one of the oldest zoos in the world, is the green heart of the city, populated by more than 5,000 animals. After more than 160 years this romantic English garden with its marvellous collection of animals is still a unique meeting spot for young and old, attracting about 1 million visitors each year. In case of bad weather, many indoor collections can be visited: the reptile house, the ape house, nocturama (nocturnal animals), the aquarium and "Vriesland" ('freeze land'): a biotope with sea otters, King penguins and macaroni penguins,...

The visit ends at about 17.30 h, closing time of the zoo.

Meeting place: Hall of Antwerp Central Railway Station, 01.30 p.m.

Fee: € 19,00

Geschäftssitzung der Anatomische Gesellschaft

- Mitgliederversammlung -
Saturday, March 28, 2009 06:30 p.m. Lecture Hall T103

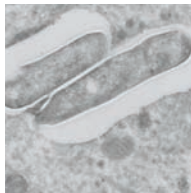
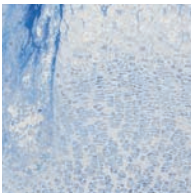
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John Wiley & Sons, Inc, 111 River Street, 8-01 Hoboken, NJ 07030-5774, USA

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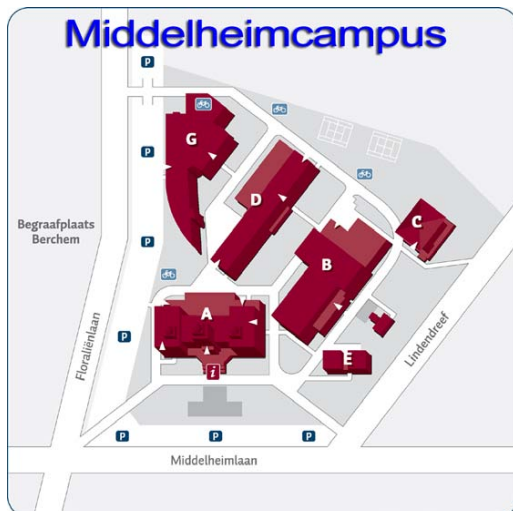
Deutsche Akademie der Naturforscher Leopoldina, Postfach 11 05 43, D-06019 Halle (Saale), Germany

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Carl Zeiss NV, Ikaroslaan 49, 1930 Zaventem (Belgium)

3B Scientific GmbH, Rudorffweg 8, 21031 Hamburg, Germany

Middelheimcampus and Groenenborgercampus



How to reach the University of Antwerpen by car



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Große Steinstr. 52
06097 Halle (Saale)

Membership application – annual subscription rate: € 40.-

I would like to apply for a membership in the Anatomische Gesellschaft.

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Meeting Calender – Scientific Program – Social Programme

Day	Hours	T103	T105	U024	S310 & S311	Aula J Fabre Leopoldina Symposium	Social Programme
Friday 27/03/09	13:00 – 17:10 18:00 – 20:00						Opening Ceremony and Welcome Reception 08:30 Bruges
Saturday 28/03/09	08:30 – 10:45 11:15 – 12:45 12:45 – 14:00 14:00 – 15:15 15:45 – 16:45 17:00 – 18:30 18:30 – 19:30	MT I, Session I MT I, Session II Lunch MT I, Session III/ Neuroanatomy I Neuroanatomy II Business Meeting	Cell Biology I Lunch	FLESSS I FLESSS II	Poster Session I		
Sunday 29/03/09	08:30 – 10:00 10:30 – 12:00 12:00 – 13:15 13:15 – 14:45 15:15 – 17:00 17:00 – 18:30 20:30	MT II, Session I MT II, Session II Lunch MT II, Session III MT II, Session IV	COST B30 I COST B30 II Lunch COST B30 III COST B30 WS/MC	Anat Rec I Lunch Anat Rec II Anat Rec III	Poster Session II		09:30 Rubens 13:30 Centre Antwerpen Congress Dinner
Monday 30/03/09	08:30 – 10:00 10:30 – 12:15 12:15 – 13:30 13:30 – 15:30 15:30	Neuroanatomy III Cell Biology II Lunch Gross Anatomy Closing Ceremony & Poster Prizes	COST B30 IV COST B30 V Lunch COST B30 VI	Dev/Repr/Imm Biology			9:45 Diamond Museum & Factory 13:30 Antwerp Zoo